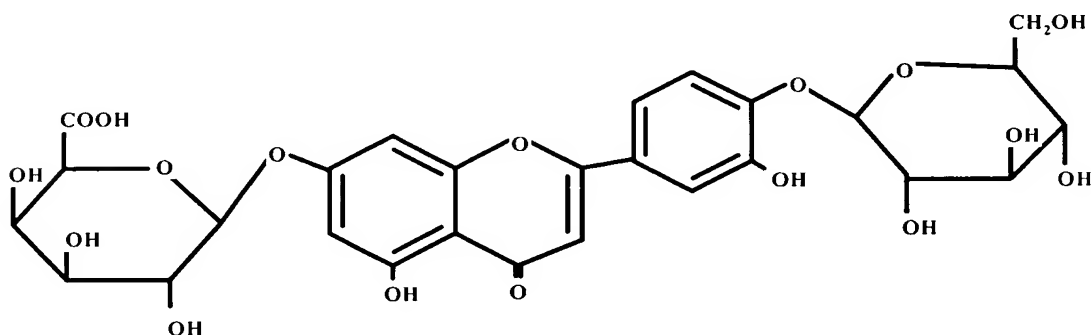


IN THE CLAIMS:

Claim 1 (currently amended) A composition for enhancing the bioavailability of a drug or nutraceutical ~~drugs / nutraceuticals~~, said composition comprising an active drug or nutraceutical ~~drug / nutraceutical~~ and an effective amount of a bioenhancer to enhance a pharmaceutical effect of said active drug or nutraceutical without harmful side effect, said bioenhancer being selected from the group consisting of a fraction obtained from *Cuminum cyminum* having characteristics as shown in Fig. 3 ~~figure-3~~ and an active molecule of the following formula 1; ~~to enhance pharmaceutical effect of said active drug / nutraceutical without any harmful side effect.~~



3',5-Dihydroxy flavone 7-O-β-D-galacturonide-4'-O-β-D-glucopyranoside

~~Fig-1~~

Claim 2 (currently amended) A composition as claimed in claim 1, wherein a w/w ratio of the bioenhancer to the drug or nutraceutical ~~/ nutraceutical~~ is in the range of 0.1 to 300.

Claim 3 (currently amended) A composition as claimed in claim 1, wherein said bioenhancer is present in the composition in an amount effective to increase the increases bioavailability of the drug or nutraceutical /~~nutraceutical~~ by 80-220%.

Claim 4 (currently amended) A composition as claimed in claim 1, wherein said active drug is selected from the group consisting ~~comprising~~ of antibiotics, anti-fungal drugs, antiviral drugs, anticancer drugs, cardiovascular disorder drugs, CNS disorders drugs, antiinflammatory / antiarthritic drugs, anti-TB / anti-leprosy drugs, anti-histamines / respiratory disorder drugs, corticosteroids, immuno-suppressants and anti ulcer drugs.

Claim 5 (withdrawn/currently amended) A composition as claimed in claim 4, wherein said antibiotic is selected from the group ~~comprising~~ consisting of fluoroquinolones, macrolides, cephalosporins, penicillins and aminoglycosides.

Claim 6 (withdrawn/currently amended) A composition as claimed in claim 5, wherein said fluoroquinolone is selected from the group consisting ~~comprising~~ of ciprofloxacin, p-floxacin, o-floxacin and norfloxacin.

Claim 7 (withdrawn/currently amended) A composition as claimed in claim 5, wherein said macrolide is selected from the group consisting ~~comprising~~ of erythromycin, roxythromycin and azithromycin.

Claim 8 (withdrawn/currently amended) A composition as claimed in claim 5, wherein said cephalosporin is selected from the group consisting ~~comprising~~ of cefalexin, cefadroxil and cefatrioxone.

Claim 9 (withdrawn/currently amended) A composition as claimed in claim 5, wherein said penicillin is selected from the group ~~comprising~~ consisting of amoxycillin and cloxacillin.

Claim 10 (withdrawn/currently amended) A composition as claimed in claim 5, wherein said aminoglycoside ~~used~~ is amikacin.

Claim 11 (withdrawn/currently amended) A composition as claimed in claim 4, wherein said antifungal drug is selected from the group consisting ~~comprising~~ of fluconazole, amphotericin B and ketoconazole.

Claim 12 (withdrawn/currently amended) A composition as claimed in claim 4, wherein said antiviral drug is selected from the group consisting ~~comprising~~ of acyclovir and zidovudine.

Claim 13 (withdrawn/currently amended) A composition as claimed in claim 4, wherein said CNS drug is selected from the group consisting ~~comprising~~ of alprazolam and haloperidol.

Claim 14 (withdrawn/currently amended) A composition as claimed in claim 4,

wherein said anti-cancer drug is selected from the group ~~comprising~~ consisting of methotrexate, 5-fluorouracil, doxorubicin and cisplatin.

Claim 15 (withdrawn/currently amended) A composition as claimed in claim 4, wherein said cardiovascular disorder drug is selected from the group ~~comprising~~ consisting of amlodipine, atenolol and propranolol.

Claim 16 (withdrawn/currently amended) A composition as claimed in claim 4, wherein said anti-inflammatory / antiarthritic drug is selected from the group ~~comprising~~ consisting of diclofenac, piroxicam, nimesulide and rofecoxib.

Claim 17 (withdrawn/currently amended) A composition as claimed in claim 4, wherein said anti-TB / antileprosy drug is selected from the group consisting ~~comprising~~ of rifampicin, dapsone, ethionamide and cycloserine.

Claim 18 (withdrawn/currently amended) A composition as claimed in claim 4, wherein said anti-histamines / respiratory disorder drug is selected from the group consisting ~~comprising~~ of salbutamol, theophylline and loratidine.

Claim 19 (withdrawn/currently amended) A composition as claimed in claim 4, wherein said corticosteroid is selected from the group consisting ~~comprising~~ of prednisolone, dexamethasone and betamethasone.

Claim 20 (currently amended) A composition as claimed in claim 4, wherein

said immunosuppressant is selected from the group ~~comprising~~ consisting of cyclosporin A and tacrolimus.

Claim 21 (withdrawn/currently amended) A composition as claimed in claim 4, wherein said anti-ulcer drug is selected from the group ~~comprising~~ consisting of ranitidine, cimetidine and omeprazole.

Claim 22 (withdrawn/currently amended) A composition as claimed in claim 1, wherein the nutraceutical is selected from the group ~~comprising~~ consisting of vitamins, antioxidants, natural herbal products, herbal formulations and essential nutritional components.

Claim 23 (withdrawn/currently amended) A composition as claimed in claim 22, wherein said vitamin is selected from the group ~~comprising~~ consisting of Vitamin A, E, B1, B6, B12, C and Folic acid.

Claim 24 (withdrawn/currently amended) A composition as claimed in claim 22, wherein said antioxidant is selected from the group ~~comprising~~ consisting of  $\beta$ -carotene, silymarin, selenium, lycopene and ellagiogallotannins.

Claim 25 (withdrawn/currently amended) A composition as claimed in claim 22, wherein said natural herbal product is selected from the group ~~comprising~~ consisting of curcumin, boswellic acids and rutin.

Claim 26 (withdrawn/currently amended) A composition as claimed in claim 22, wherein herbal formulation is selected from the group consisting ~~comprising~~ of echinacea, tinospora cordifolia, picrorrhiza kurroa, emblica ribes, asparagus racemosus, terminalia chebula and centella asiatica.

Claim 27 (withdrawn/currently amended) A composition as claimed in claim 22, wherein said nutritional component is selected from the group ~~comprising~~ consisting of methionine, lysine, leucine, valine, isoleucine, zinc, calcium, glucose, potassium, copper and iron.

Claim 28 (currently amended) A composition as claimed in claim 1, wherein said composition is administered orally or intramuscularly ~~and is also relevant to animal health.~~

Claim 29 (withdrawn) A method for enhancing bioavailability of drugs / nutraceuticals said method comprising of admixing to the drug / nutraceutical an effective amount of bioenhancer selected from a fraction obtained from *Cuminum cyminum* having characteristics as shown in figure 3 and an active molecule of formula 1 to enhance pharmaceutical effect of said active drug / nutraceutical without any harmful side effect.

Claim 30 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the antibiotic is enhanced by 45 to 85% when the same is mixed with the active molecule of formula 1.

Claim 31 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the antibiotic is enhanced by 55 to 137% when the same is mixed with the fraction.

Claim 32 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the antifungal drug is enhanced by 77 to 110% when the same is mixed with the active molecule of formula 1.

Claim 33 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the antifungal drug is enhanced by 85 to 105% when the same is mixed with the fraction.

Claim 34 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the antiviral drug is enhanced by 89 to 120% when the same is mixed with the active molecule of formula 1.

Claim 35 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the antiviral drug is enhanced by 120 to 135% when the same is mixed with the fraction.

Claim 36 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the CNS drug is enhanced by 70 to 72% when the same is mixed with the active molecule of formula 1.

Claim 37 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the CNS drug is enhanced by 60 to 75% when the same is mixed with the fraction.

Claim 38 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the anti-cancer drug is enhanced by 65 to 110% when the same is mixed with the active molecule of formula 1.

Claim 39 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the anti-cancer drug is enhanced by 90 to 240% when the same is mixed with the fraction.

Claim 40 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the cardiovascular disorder drug is enhanced by 75 to 85% when the same is mixed with the active molecule of formula 1.

Claim 41 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the cardiovascular disorder drug is enhanced by 110 to 140% when the same is mixed with the fraction.

Claim 42 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the anti-inflammatory / antiarthritic drug is enhanced by of 43 to 105% when the same is mixed with the active molecule of formula 1.



Claim 43 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the anti-inflammatory / antiarthritic drug is enhanced by 70 to 125% when the same is mixed with the fraction.

Claim 44 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the anti-TB / antileprosy drug is enhanced by of 67 to 120% when the same is mixed with the active molecule of formula 1.

Claim 45 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of anti-TB / antileprosy drug is enhanced by 93 to 170% when the same is mixed with the fraction.

Claim 46 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of the anti-histamines / respiratory disorder drug is enhanced by of 62 to 98% when the same is mixed with the active molecule of formula 1.

Claim 47 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of anti-histamines / respiratory disorder drug is enhanced by 35 to 95% when the same is mixed with the fraction.

Claim 48 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of corticosteroids is enhanced by of 46 to 67% when the same is mixed with the active molecule of formula 1.

Claim 49 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of corticosteroids is enhanced by 50 to 60% when the same is mixed with the fraction.

Claim 50 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of immunosuppressants is enhanced by of 90 to 135% when the same is mixed with the active molecule of formula 1.

Claim 51 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of immunosuppressants is enhanced by 110 to 170% when the same is mixed with the fraction.

Claim 52 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of anti-ulcer drugs is enhanced by 72 to 85% when the same is mixed with the active molecule of formula 1.

Claim 53 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of anti-ulcer drugs is enhanced by 70 to 95% when the same is mixed with the fraction.

Claim 54 (withdrawn/currently amended) A method as claimed in claim 29, wherein the bioavailability of herbal formulation is enhanced by 45 to 102% when the same is mixed with the active molecule of formula 1.

Claim 55 (withdrawn) A method as claimed in claim 29, wherein the bioavailability of herbal formulation is enhanced by 35 to 147% when the same is mixed with the fraction.

Claim 56 (withdrawn) A method as claimed in claim 29, wherein said method is administered orally or intramuscularly and is also relevant to animal health.

Claim 57 (new). The composition as claimed in claim 1, wherein the composition comprises the fraction having the characteristics as shown in Fig. 3.